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Amendments to the Claims

1. (Currently Amended) A hydrodynamic and hydrostatic hybrid bearing

comprises:

a housing containing a lubricant;

a bushing placed in the housing having a plurality of dynamic pressure

generating grooves being penetrated that penetrate through the bushing for

storing the lubricant; and

a shaft rotatably installed in the bushing;

wherein the lubricant produces hydrodynamic pressure between the

grooves and the shaft when the shaft rotates relative to the bushing.

2. (Previously Presented) The hydrodynamic and hydrostatic hybrid

bearing of claim 1, wherein the housing comprises a porous material for storing

a lubricant.

3. (Previously Presented) The hydrodynamic and hydrostatic hybrid

bearing of claim 1, wherein a pre-pressure is applied to the housing for making

the lubricant pass through the grooves and to be present between the bushing

and the shaft.

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4. (Currently Amended) The hydrodynamic and hydrostatic hybrid bearing of claim 3, wherein the housing further comprises a sealed unit to keep maintain the pre-pressure.

- 5. (Currently Amended) The hydrodynamic and hydrostatic hybrid bearing of claim 4, wherein the sealed unit is comprises a sealed sealing glue.
- 6. (Previously Presented) The hydrodynamic and hydrostatic hybrid bearing of claim 1, wherein the bushing is a cylinder-shaped bushing.
- 7. (Currently Amended) The hydrodynamic and hydrostatic hybrid bearing of claim 1, wherein the dynamic pressure generating grooves are two pairs of herringbone grooves.
- 8. (Withdrawn Currently Amended) The manufacturing method of the hydrodynamic and hydrostatic hybrid bearing comprises the following steps:

forming a bushing;

processing a plurality of penetrated dynamic pressure generating grooves on that penetrate through the bushing;

integrating the bushing into a housing containing a lubricant; installing a shaft in the bushing; and

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applying a pre-pressure to the housing and sealing the housing.

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9. (Withdrawn) The manufacturing method as claim 8, wherein the bushing is a cylinder-shaped bushing.

- 10. (Withdrawn) The manufacturing method as claim 8, wherein the dynamic pressure generating grooves are processed by a cutting processing.
- 11. (Withdrawn) The manufacturing method as claim 8, wherein the dynamic pressure generating grooves are formed by an etching process.
- 12. (Withdrawn) The manufacturing method as claim 8, wherein the dynamic pressure generating grooves are formed by a plastic injection process.
- 13. (Withdrawn Currently Amended) The manufacturing method as claim 8, wherein the dynamic pressure generating grooves are comprise two pairs of herringbone grooves.
- 14. (Withdrawn) The manufacturing method as claim 8, wherein lubricant produces a hydrodynamic pressure between the dynamic pressure generating grooves and the shaft when the shaft rotates relative to the bushing.

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15. (Withdrawn) The manufacturing method as claim 8, wherein the

housing contains porous material for storing the lubricant.

16. (Withdrawn - Currently Amended) The manufacturing method as

claim 8, wherein the pre-pressure makes the lubricant pass through the

grooves and be kept maintained between the bushing and shaft.

17. (Withdrawn - Previously Presented) The manufacturing method as

claim 8, wherein the bushing is combined with the housing by being inserted

directly into the housing.

18. (Withdrawn - Currently Amended) The manufacturing method as

claim 8, wherein the bushing is combined with the housing by extruding and

sintering.

19. (Previously Presented) The hydrodynamic and hydrostatic hybrid

bearing of claim 3, wherein the pre-pressure is applied by an external device

after the shaft is in the bushing.